LATEX Hands-on Workshop

Ali Abolhassanzadeh Mahani physics.shrif.edu/~ali.a.mahani

Big Picture

This workshop was organized by Sharif Physics Student Scientific Association and targets undergraduate students in fundamental sciences. It is meant as an introductory course to the world of LATEX to help students in typesetting their university assignments.

Suggested Editors

- Offline Tex Studio
- Online Overleaf

Syllabus

- 1. Intro to LATEX
 - A little bit of history
 - Why LATEX
 - File Types (DVI, Tex, Log, PDF, ...)
 - Editors

2. Basic Typesetting

- Special Characters (& ...)
- Basic Text Formatting (Italic, Bold, size, Roman, ...)
- Itemize
- Enumerate

• Sections, Chapters, Subsections, ...

3. Math Mode

- Inline Math Mode
- Variables
- Spacing in Math Mode
- Symbols, Integrals, Sums, Derivatives, \dots
- Useful Environments

4. Figures

- \includegraphicx
- Setting Size
- Positioning
- Captions

5. Tables

- tabular
- Positioning
- Captions

6. Referencing

- Configurations
- Labels
- URLs
- Files

7. Physics

8. Persian

- xepersian and documentation
- Setting up fonts (XB Niloofar)
- Basic Typesetting
- Localize
- Writing English with xepersian
- footnotes (Persian and English)

Assistants

There are assistants available during the lecture who will help you with your errors.

- Ahmad Remezanpour
- Saleh Shamloo
- Erfan Rahbari

Useful Links

- $\bullet~$ The Official LATEX Forum
- Comprehensive TeX Archive Network: useful for finding packages and documentations